

the hold or compartment and above the weather deck.

(5) Any opening in a common bulkhead of an adjacent hold or compartment must be securely closed off and made gas-tight, unless the adjacent hold or compartment is also used for the stowage of Division 2.1 (flammable gas) materials.

(6) Full and efficient hatch covers must be used. Tarpaulins, if fitted, must be protected by dunnaging before overstowing with any cargo. Each tarpaulin must be in one piece and free of rents, tears, and holes.

(7) A fire screen must be fitted at the weather end of each vent duct leading from the hold or compartment. The fire screen must completely cover the open area. It must consist of two layers of corrosion-resistant metal wire of 20×20 mesh or finer, spaced not less than 1 cm (0.4 inch) or more than 4 cm (1.6 inches) apart. The screen may be removable if means for securing it in place when in service are provided.

(8) The hold or compartment may not be fitted with any gooseneck type vent trunk head.

(9) Any electrical apparatus located in the hold or compartment must be capable of being disconnected from its power source by a positive means located outside the hold or compartment.

[Amdt. 176-30, 55 FR 52704, Dec. 21, 1990, as amended at 56 FR 66282, Dec. 20, 1991]

#### **§ 176.210 On deck stowage requirements.**

Cylinders of Class 2 (compressed gas) materials being transported by vessel must be protected from sources of heat. A tarpaulin covering the cylinders is not acceptable if it comes in contact with them.

[78 FR 1095, Jan. 7, 2013]

#### **§ 176.220 Smoking or open flame and posting of warning signs.**

(a) Smoking or the use of open flame is prohibited in any hold or compartment containing a Division 2.1 (flammable gas) material, near any Division 2.1 (flammable gas) material stowed on deck, or near any ventilator leading to a hold containing this material.

(b) A sign carrying the legend:

FLAMMABLE VAPORS

KEEP LIGHTS AND FIRE AWAY  
NO SMOKING

must be conspicuously posted at each approach to an “on deck” Division 2.1 (flammable gas) material stowage area and near each cargo hold ventilator leading to a hold containing this material. The sign must be painted on a white background using red letters. The letters may not be less than 8 cm (3 inches) high.

#### **§ 176.225 Stowage of chlorine.**

Chlorine (UN 1017) must be stowed separate from copper or brass leaf sheets and from finely divided organic material.

#### **§ 176.230 Stowage of Division 2.1 (flammable gas) materials.**

Division 2.1 (flammable gas) materials transported in Specification 106A or 110A multi-unit car tanks must be stowed on deck only, and must be protected from sources of heat.

[78 FR 1095, Jan. 7, 2013]

### **Subpart I—Detailed Requirements for Class 3 (Flammable) and Combustible Liquid Materials**

SOURCE: Amdt. 176-30, 55 FR 52705, Dec. 21, 1990, unless otherwise noted.

#### **§ 176.305 General stowage requirements.**

(a) A Class 3 (flammable) or combustible liquid must be kept as cool as reasonably practicable, protected from sources of heat, and away from potential sources of ignition.

(b) Except as otherwise provided in § 176.76(g), a package containing a Class 3 (flammable) liquid and equipped with a vent or safety relief device must be stowed “on deck” only.

(c) The following requirements apply to each hold or compartment in which any Class 3 (flammable) or combustible liquids are being transported:

(1) The hold or compartment must be ventilated except that the stowage of non-bulk packages of Class 3 (flammable) liquids with a flash point above 23 °C (73 °F) (see 49 CFR 171.8 definitions) may be in non-ventilated holds.

(2) Stowage of a Class 3 (flammable) or combustible liquid within 6 m (20